

Title (en)  
AUTOMATIC EXTRACTION OF MUSICAL PORTIONS OF AN AUDIO STREAM

Title (de)  
AUTOMATISCHE EXTRAKTION VON MUSIKTEILEN EINES AUDIOSTROMS

Title (fr)  
EXTRACTION AUTOMATIQUE DES PARTIES MUSICALES D'UN FLOT AUDIO

Publication  
**EP 1692799 A4 20070613 (EN)**

Application  
**EP 04801373 A 20041208**

Priority  
• IB 2004004085 W 20041208  
• US 73325703 A 20031212

Abstract (en)  
[origin: US2005126369A1] Music and non-music portions in an audio stream are identified. The audio stream is digitized and segmented into frames. Selected frames are passed through a filter bank which includes filters having bandwidths approximately proportional to their center frequencies. The spectral flux for each selected frame is calculated and smoothed. Frames having a smoothed spectral flux below a threshold value are associated with music, and frames having a smoothed spectral flux above a threshold value are associated with non-music.

IPC 8 full level  
**G10L 11/02** (2006.01); **G10D 1/00** (2006.01); **G10H 1/00** (2006.01); **G10H 1/18** (2006.01); **G10H 7/00** (2006.01); **G11B 27/034** (2006.01); **G11B 27/28** (2006.01); **H04H 60/27** (2008.01); **H04H 60/37** (2008.01); **H04H 60/48** (2008.01); **H04H 60/58** (2008.01); **H04Q 1/00** (2006.01)

IPC 8 main group level  
**H04H 1/00** (2006.01)

CPC (source: EP KR US)  
**G10H 1/00** (2013.01 - EP KR US); **G10L 25/78** (2013.01 - EP KR US); **G11B 27/034** (2013.01 - EP KR US); **G11B 27/28** (2013.01 - EP KR US); **H04H 60/27** (2013.01 - EP KR US); **H04H 60/37** (2013.01 - EP KR US); **H04H 60/48** (2013.01 - EP KR US); **H04H 60/58** (2013.01 - EP KR US); **G10H 2210/046** (2013.01 - EP KR US)

Citation (search report)  
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• [A] GEORGE TZANETAKIS ET AL: "Musical Genre Classification of Audio Signals", IEEE TRANSACTIONS ON SPEECH AND AUDIO PROCESSING, IEEE SERVICE CENTER, NEW YORK, NY, US, vol. 10, no. 5, July 2002 (2002-07-01), XP011079656, ISSN: 1063-6676  
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KR 100840745 B1 20080623; KR 20060086420 A 20060731; WO 2005060337 A2 20050707; WO 2005060337 A3 20060921

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